

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/526,256
Source: PG/10
Date Processed by STIC: 3/9/05

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 03/09/2005

PATENT APPLICATION: US/10/526,256

TIME: 15:20:32

Input Set : A:\66783-152.TXT

Output Set: N:\CRF4\03092005\J526256.raw

4 <110> APPLICANT: Cedars-Sinai Medical Center
 5 Abreu, Maria T.
 6 Taylor, Kent D.
 7 Rotter, Jerome I.
 8 Yang, Huiying
 9 Sugimura, Kazuhito
 10 Targan, Stephan R.
 12 <120> TITLE OF INVENTION: Mutations in NOD2 are Associated with
 13 Fibrostenosing Disease in Patients with Crohn's Disease
 17 <130> FILE REFERENCE: 66783-152
 C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/526,256
 C--> 20 <141> CURRENT FILING DATE: 2005-02-28
 22 <150> PRIOR APPLICATION NUMBER: US 60/407,391
 23 <151> PRIOR FILING DATE: 2002-08-30
 25 <150> PRIOR APPLICATION NUMBER: US 10/356,736
 26 <151> PRIOR FILING DATE: 2003-01-30
 28 <160> NUMBER OF SEQ ID NOS: 67
 30 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 32 <210> SEQ ID NO: 1
 33 <211> LENGTH: 494
 34 <212> TYPE: DNA
 35 <213> ORGANISM: Homo sapiens
 37 <400> SEQUENCE: 1
 38 accttcagat cacagcagcc ttcctggcag ggctgttgct ccgggagcac tggggcctgc 60
 39 tggctgagtg ccagacatct gagaaggccc tgctccggcg ccaggcctgt gcccgctggt 120
 40 gtctggcccc cagcctccgc aagcacttcc actccatccc gccagctgca ccgggtgagg 180
 41 ccaagagcgt gcatgccatg cccgggttca tctggctcat ccggagcctg tacgagatgc 240
 42 aggaggagcg gctggctcgg aaggctgcac gtggcctgaa tgttgggcac ctcaagttga 300
 43 cattttgcag tgtgggcccc actgagtgtg ctgccctggc ctttgtgctg cagcacctcc 360
 44 ggcggcccggt ggccctgcag ctggactaca actctgtggg tgacattggc ctggagcagc 420
 45 tgctgccttg ccttggtgtc tgcaaggctc tgtagtgagt gttactgggc attgctgttc 480
 46 aggtatgggg gagc 494
 48 <210> SEQ ID NO: 2
 49 <211> LENGTH: 494
 50 <212> TYPE: DNA
 51 <213> ORGANISM: Homo sapiens
 53 <400> SEQUENCE: 2
 54 gctcccccat acctgaacag caatgcccag taacactcac tacagagcct tgcagacacc 60
 55 aaggcaaggc agcagctgct ccaggccaat gtcacccaca gaggttgtagt ccagctgcag 120
 56 ggccacgggc cgccggaggt gctgcagcac aaaggccagg gcagcacact cagtggggcc 180
 57 cacactgcaa aatgtcaact tgaggtgccc aacattcagg ccacgtgcag ccttccgagc 240
 58 cagcgcctcc tcctgcatct cgtacaggct ccggatgagc cagatgaacc cgggcatggc 300
 59 atgcacgctc ttggcctcac ccggtgcagc tggcgggatg gaggtggaagt gcttgccgag 360

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/526,256

DATE: 03/09/2005

TIME: 15:20:32

Input Set : A:\66783-152.TXT

Output Set: N:\CRF4\03092005\J526256.raw

```

60 gctgcggggcc agacaccagc gggcacaggc ctggcgccgg agcagggcct tctcagatgt 420
61 ctggcactca gccagcaggc cccagtgtct ccgggacaac agccctgcc ggaaggctgc 480
62 tgtgatctga aggt 494
64 <210> SEQ ID NO: 3
65 <211> LENGTH: 540
66 <212> TYPE: DNA
67 <213> ORGANISM: Homo sapiens
69 <400> SEQUENCE: 3
70 atcaaaaccc tgagaggaca agggacattt ccaagtcacc cagaaagact cgagtgtcct 60
71 ctcttgaaat ccaatgggtct tttttcctta ctccattgcc taacattgtg gggtagaaat 120
72 aaagttcaaa gaccttcaga actggcccca gctcctccct cttcacctga tctccccaag 180
73 aaaactgcag gatagactct gaagcttacc tgagccacct caagctctgg tgatcaccca 240
74 aggttcagc cagggcctgg gccccctcgt caccactct gttgccccag aatctgaaaa 300
75 ggccaaaaga gtcaacagac agtgtcagtg agtacctgat atgtgttcta gacatgaact 360
76 aacagtctc ctccctctgc agtcccagcc agaggggcag gaccactcaa tcccagagt 420
77 gcctcactgg ggctcctggg cccagcaaag tggacctgcc tccatctttt ggggtgggatg 480
78 gccaaactta acccaagagt ttctcagtggc ttacattac agacttagag aatagtagag 540
81 <210> SEQ ID NO: 4
82 <211> LENGTH: 540
83 <212> TYPE: DNA
84 <213> ORGANISM: Homo sapiens
86 <400> SEQUENCE: 4
87 ctctactatt ctctaagtct gtaatgtaaa gccactgaaa actcttgggt taagtttggc 60
88 catcccaccc aaaagatgga ggcagggtcca ctttgtggg accaggagcc ccagtgggc 120
89 cactctggga ttgagtggc ctgcccctct ggctgggact gcagagggag gaggactgtt 180
90 agttcatgtc tagaacacat atcagggtact cactgacact gtctgttgac tcttttggcc 240
91 ttttcagatt ctggggcaac agagtgggtg acgagggggc ccaggccctg gctgaagcct 300
92 tgggtgatca ccagagcttg aggtggctca ggtaagcttc agagtctatc ctgcagtttt 360
93 cttggggaga tcaggtgaag agggaggagc tggggccagt tctgaaggtc tttgaacttt 420
94 atttctaccc cacaatgtta ggcaatggag taaggaaaaa agaccattgg atttcaagag 480
95 aggacactcg agtctttctg ggtgacttgg aaatgtccct tgtcctctca gggttttgat 540
98 <210> SEQ ID NO: 5
99 <211> LENGTH: 541
100 <212> TYPE: DNA
101 <213> ORGANISM: Homo sapiens
103 <400> SEQUENCE: 5
104 tttaaaaatg aaatcattgc tccctactta aagaggtaaa gacttctttc ttagacagag 60
105 aatcagatcc ttcacatgca gaatcattct cactgaatgt cagaatcaga agggatcctc 120
106 aaaattctgc cattcctctc tcccgtcacc ccattttaca gatagaaaaa ctgagggtcg 180
107 gagagctaaa acaggcctgc ccaggggcct taccagactt ccaggatggg gtcattcctt 240
108 tcaagggggc tgcaggaggg cttctgcccc taggtagggt atgcagttat tggacaacct 300
109 ggaaaagaag atacaatggg gagcttcaag gattcttggg tttcctcttg aaactgtcca 360
110 gttaaagaga ctgcaggagt tagccagtct actgaagccc acctgtccct tagacacatc 420
111 ctgctcatgt ctgagattcc caatgagctc atcaacaaag gctcagtacc atcagtgaag 480
112 tgtaaccgtc tctcttccat tctactagat agtttatcaa attaagtagc cactccctta 540
113 g 541
115 <210> SEQ ID NO: 6
116 <211> LENGTH: 541
117 <212> TYPE: DNA

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/526,256

DATE: 03/09/2005

TIME: 15:20:32

Input Set : A:\66783-152.TXT

Output Set: N:\CRF4\03092005\J526256.raw

118 <213> ORGANISM: Homo sapiens

120 <400> SEQUENCE: 6

```

121 ctaaggaggagt ggctacttaa tttgataaac tcatctagtg aatggaagag agacgggttac 60
122 atttcactga tggactagag cctttgttga tgagctcatt ggaatctca gacatgagca 120
123 ggatgtgtct aaggacagag tgggcttcag tagactggct aactcctgca gtctctttaa 180
124 ctggacagtt tcaagaggaa aaccaagaat ccttgaagct caccattgta tcttcttttc 240
125 caggttgtcc aataactgca tcacctacct aggggcagaa gccctcctgc agggcccttg 300
126 aaaggaatga caccatcctg gaagtctggg aaggccctg ggcaggcctg ttttagctct 360
127 ccgaacctca gtttttctat ctgtaaaatg gggtagcggg agagaggaaat ggcagaattt 420
128 tgaggatccc ttctgattct gacattcagt gagaatgatt ctgcatgtga aggatctgat 480
129 tctctgtcta agaaagaagt ctttacctct ttaagtaggg agcaatgatt tcatttttaa 540
130 a 541

```

132 <210> SEQ ID NO: 7

133 <211> LENGTH: 540

134 <212> TYPE: DNA

135 <213> ORGANISM: Homo sapiens

137 <400> SEQUENCE: 7

```

138 aacagcagtg ctcaaagagt agagtccgca cagagagtgg tttggccatg cactgcagct 60
139 gccggcagct gaatgggaag acaaagagaa attcctggaa gtcttgccct gcagcccaca 120
140 gcaagtgcag ccgctgcagg agcgtgctct tgccactgcc cgctcacc accaccagca 180
141 cagtgtccgc atcgtcattg aggtggccag gggtagtgaa gagctcctcc agggccaggg 240
142 tggctgggct cttctgaggg ggtccagcca tgcccacatc tgcccagacc tccaggacat 300
143 tctctgtgta tatgtcctcc aggcagagcg tctctgctcc atcataggta ctgagggaagc 360
144 gagactgagc agacaccgtg gtcctcagct tggccatata cttcttgcat gtggcagctg 420
145 gaaggcagaa gaagaggcag atgaaggtag caccatggg aagacgggac ctaaccagac 480
146 aatgggctgc tgcgggggac gctgacataa ctgaagggat aggagagcca gcggggcgccc 540

```

149 <210> SEQ ID NO: 8

150 <211> LENGTH: 540

151 <212> TYPE: DNA

152 <213> ORGANISM: Homo sapiens

154 <400> SEQUENCE: 8

```

155 gggcgcccg c tggctctcct atcccttcag ttatgtcagc gtcccccgca gcagcccatt 60
156 gtctgggttag gtcccgctct caccatgggt ccaccttcac ctgcctcttc ttctgccttc 120
157 cagctgccac atgcaagaag tatatggcca agctgaggac cacgggtgtct gctcagttct 180
158 gcttcctcag tacctatgat ggagcagaga cgctctgcct ggaggacata tacacagaga 240
159 atgtcctgga ggtctgggca gatgtgggca tggctggacc ccgcagaaag agcccagcca 300
160 ccctgggcct ggaggagctc ttcagcacc ccctggccacct caatgacgat gcggacactg 360
161 tgctggtggt gggtagggcg ggcagtggca agagcacgct cctgcagcgg ctgcacttgc 420
162 tgtgggctgc agggcaagac ttccaggaat ttctctttgt cttccatttc agctgccggc 480
163 agctgcagtg catggccaaa ccactctctg tgcggactct actctttgag cactgctgtt 540

```

166 <210> SEQ ID NO: 9

167 <211> LENGTH: 520

168 <212> TYPE: DNA

169 <213> ORGANISM: Homo sapeins

171 <400> SEQUENCE: 9

```

172 gcaactgggca ccactacca atggattgga attggtcctt aagataaaat gtacctgatc 60
173 cagcccaata tcttcaattt acagatactg tatcaaaacc ctgagaggac aagggaacatt 120
174 tccaagtcac ccagaaagac tcgagtgtcc tctcttgaaa tccaatggtc ttttttcctt 180
175 actccattgc ctaacattgt ggggtagaaa taaagttcaa agaccttcag aactggcccc 240

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/526,256

DATE: 03/09/2005

TIME: 15:20:32

Input Set : A:\66783-152.TXT

Output Set: N:\CRF4\03092005\J526256.raw

```

176 agctcctccc tcttcacctg atctcccca gaaaactgca ggatagactc tgaagcttac 300
177 ctgagccacc tcaagctctg gtgatcacc aaggcttcag ccagggcctg ggccccctcg 360
178 tcacccactc tggtgcccc gaatctgaaa aggccaaaag agtcaacaga cagtgtcagt 420
179 gagtacctga tatgtgttct agacatgaac taacagtcct cctccctctg cagtcccagc 480
180 cagaggggca ggaccactca atcccagagt ggcctcactg 520
182 <210> SEQ ID NO: 10
183 <211> LENGTH: 520
184 <212> TYPE: DNA
185 <213> ORGANISM: Homo sapiens
187 <400> SEQUENCE: 10
188 cagtgaggcc actctgggat tgagtgggtc tgcccctctg gctgggactg cagagggagg 60
189 aggactgtta gttcatgtct agaacacata tcaggtaact actgacactg tctgttgact 120
190 cttttggcct tttcagattc tggggcaaca gagtgggtga cgagggggcc caggccctgg 180
191 ctgaagcctt gggatgacac cagagcttga ggtggctcag gtaagcttca gagtctatcc 240
192 tgcagttttc ttggggagat cagggtgaaga gggaggagct ggggccagtt ctgaaggctc 300
193 ttgaacttta tttctacccc acaatgttag gcaatggagt aaggaaaaaa gaccattgga 360
194 tttcaagaga ggacactcga gtctttctgg gtgacttgga aatgtccctt gtcctctcag 420
195 ggttttgata cagtatctgt aaattgaaga tattgggctg gatcagggtac attttatctt 480
196 aaggaccaat tccaatccat tggtagtggg tgcccagtcg 520
198 <210> SEQ ID NO: 11
199 <211> LENGTH: 535
200 <212> TYPE: DNA
201 <213> ORGANISM: Homo sapiens
203 <400> SEQUENCE: 11
204 tcactaacca gctcaggaag ctccaccagt tgggaagtta atcattatgt ctagcttcag 60
205 tttctcctgc ttcagtttaa attgggaaag agagagaaaa aatattcact cattatctgt 120
206 ttcttaaaat tgtccttaac atccttcctc ttactccttt attacctggg cgggcttccc 180
207 ctcttcaggc gaaatctgtc agtctatctg cattgccttt tgatctctac ttcagttact 240
208 acaacttcaa agacaccatt gtctcccca aggtgaggcc catgtagaga aaggatcact 300
209 tccttgctga aagagagggg caaggggcga ccacgtggg cctcctctga aaccagggcc 360
210 caggcctgag cctggacacc tccttccttc ctgagaccac agccagcccg gtttctctgg 420
211 ggccaagagc aaatgctttg ctttaagtgt gaaatctcag cccactgacc ccttgcagac 480
212 aggagaggag gggaagccca gggaagctca acttcccaag tgtcctgagt ctctg 535
214 <210> SEQ ID NO: 12
215 <211> LENGTH: 496
216 <212> TYPE: DNA
217 <213> ORGANISM: Homo sapiens
219 <400> SEQUENCE: 12
220 aatcattatg tctagcttca gtttctcctg cttcagttta aattgggaaa gagagagaaa 60
221 aaatattcac tcattatctg tttcctaaaa ttgtccttaa catccttctt ctactcctt 120
222 tattacctgg tcgggcttcc cctcttcagg cgaaatctgt cagtctatct gcattgcctt 180
223 ttgatctcta cttcagttac tacmacttca aagacaccat tgtcctcccc aagggtgaggs 240
224 ccatgtagag aaaggatcac ttccttgctg aaagagaggg tcaaggggtg acccacgtgg 300
225 gccctccctg aaaccaggcc ccaggcctga gcctggacac ctcccttctt cctgagacca 360
226 cagccagccc ggtttctctg gggccaagag caaatgcttt gcttaagtgc tgaaatctca 420
227 gccactgac cccttgcmga caggagagga ggggaagccc agggaagctc aacttcccaa 480
228 gtgtcctgag tctctg 496
230 <210> SEQ ID NO: 13
231 <211> LENGTH: 488

```

RAW SEQUENCE LISTING

DATE: 03/09/2005

PATENT APPLICATION: US/10/526,256

TIME: 15:20:32

Input Set : A:\66783-152.TXT

Output Set: N:\CRF4\03092005\J526256.raw

```

232 <212> TYPE: DNA
233 <213> ORGANISM: Homo sapiens
235 <220> FEATURE:
236 <221> NAME/KEY: misc_feature
237 <222> LOCATION: 434
238 <223> OTHER INFORMATION: n = A,T,C or G
240 <400> SEQUENCE: 13
241 tgtctagctt cagtttctcc tgcttcagtt taaattggga aagagagaga aaaaatattc 60
242 actcattatc tgtttcctaa aattgtcctt aacatccttc ctcttactcc tttattacct 120
243 ggtcgggctt cccctcttca ggcgaaatct gtcagtctat ctgcattgcc ttttgatctc 180
244 tacttcagtt actacaactt caaagacacc attgtcctcc ccaaggtgag gcccatgtag 240
245 agaaaggatc acttccttgc tgaaagagag ggtcaagggg tgaccacagt gggccctccc 300
246 tgaaaccag gccaggcct gagcctggac acctccttcc ttcctgagac cacagccagc 360
247 ccggtttctc tggggccaag agcaaagtct ttgcttaagt gctgaaatct cagccactg 420
W--> 248 amcccttgca gacnggagag gagggggaagc ccagggaagc tcaacttccc aagtgtcctg 480
249 agtctctg 488
251 <210> SEQ ID NO: 14
252 <211> LENGTH: 491
253 <212> TYPE: DNA
254 <213> ORGANISM: Homo sapiens
256 <220> FEATURE:
257 <221> NAME/KEY: misc_feature
258 <222> LOCATION: 437
259 <223> OTHER INFORMATION: n = A,T,C or G
261 <400> SEQUENCE: 14
262 ttatgtctag cttcagtttc tcctgcttca gtttaaattg ggaaagagag agaaaaaata 60
263 ttcactcatt atctgtttcc taaaattgtc cttaacatcc ttctcttac tcctttatta 120
264 cctggtcggg cttccctctc tcaggcgaaa tctgtcagtc tatctgcatt gccttttgat 180
265 ctctacttca gttactacaa cttcaaagac accattgtcc tccccaaggt gaggcccatg 240
266 tagagaaagg atcacttctt tgctgaaaga gagggtcaag gggygacca cgtgggccct 300
267 ccctgaaacc caggcccagg cctgagcctg gacacctcct tccttctga gaccacagcc 360
268 agcccggttt ctctggggcc aagagcaaat gctttgctta agtgctgaaa tctcagccca 420
W--> 269 ctgaccctt gcagacngga gaggagggga agcccagga agctcaactt cccaagtgtc 480
270 ctgagtctct g 491
272 <210> SEQ ID NO: 15
273 <211> LENGTH: 491
274 <212> TYPE: DNA
275 <213> ORGANISM: Homo sapiens
277 <400> SEQUENCE: 15
278 ttatgtctag cttcagtttc tcctgcttca gtttaaattg ggaaagagag agaaaaaata 60
279 ttcactcatt atctgtttcc taaaattgtc cttaacatcc ttctcttac tcctttatta 120
280 cctggtcggg cttccctctc tcaggcgaaa tctgtcagtc tatctgcatt gccttttgat 180
281 ctctacttca gttactacaa cttcaaagac accattgtcc tccccaaggt gaggcccatg 240
282 tagagaaagg atcacttctt tgctgaaaga gagggtcaag gggygacca cgtgggccct 300
283 ccctgaaacc caggcccagg cctgagcctg gacacctcct tccttctga gaccacagcc 360
284 agcccggttt ctctggggcc aagagcaaat gctttgctta agtgctgaaa tctcagccca 420
285 ctgaccctt gcagacagga gaggagggga agcccagga agctcaactt cccaagtgtc 480
286 ctgagtctct g 491
288 <210> SEQ ID NO: 16

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/526,256

DATE: 03/09/2005
TIME: 15:20:33

Input Set : A:\66783-152.TXT
Output Set: N:\CRF4\03092005\J526256.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; N Pos. 434
Seq#:14; N Pos. 437
Seq#:16; N Pos. 437
Seq#:17; N Pos. 159
Seq#:18; N Pos. 433
Seq#:19; N Pos. 432
Seq#:20; N Pos. 430
Seq#:21; N Pos. 431
Seq#:22; N Pos. 434
Seq#:23; N Pos. 434

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/526,256

DATE: 03/09/2005

TIME: 15:20:33

Input Set : A:\66783-152.TXT

Output Set: N:\CRF4\03092005\J526256.raw

L:19 M:270 C: Current Application Number differs, Replaced Current Application Number
L:20 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:420
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:420
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:420
L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:120
L:348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:420
L:369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:420
L:390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:420
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:420
L:432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:420
L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:420